

Title (en)
WAVE POWER APPARATUS

Title (de)
WELLENENERGIEANLAGE

Title (fr)
HOULOGENERATEUR

Publication
EP 1678419 B1 20120815 (EN)

Application
EP 04762924 A 20041014

Priority
• DK 2004000705 W 20041014
• DK 0300693 W 20031014

Abstract (en)
[origin: WO2005038246A1] A wave power apparatus has at least one arm (122), the arm being rotationally supported at one end by a pair of pre-stressed, essentially slack-free bearings (142) and carrying a float (124) at its other end, so that a translational movement of the float caused by a wave results in rotation of the arm. Power conversion means convert power transmitted from the wave to the arms into useful power. The bearing may comprise a flexible material (149) of flat spring (342; 352; 362; 372; 374) allowing rotation or wriggling of the arm (122) around a supporting shaft (126). The apparatus may comprise a plurality of arms, which are supported by individual pairs of bearings.

IPC 8 full level
F03B 13/18 (2006.01); **F03B 11/06** (2006.01); **F16C 27/06** (2006.01)

CPC (source: EP KR US)
F03B 11/06 (2013.01 - EP KR US); **F03B 13/18** (2013.01 - KR); **F03B 13/1815** (2013.01 - EP US); **F16C 27/06** (2013.01 - KR); **F05B 2240/40** (2013.01 - EP US); **F05B 2240/54** (2013.01 - EP US); **F05B 2240/91** (2013.01 - EP US); **F05B 2250/11** (2013.01 - EP US); **F05B 2250/12** (2013.01 - EP US); **F05B 2260/30** (2013.01 - EP US); **F05B 2260/406** (2013.01 - EP US); **Y02E 10/20** (2013.01 - EP US); **Y02E 10/30** (2013.01 - EP US); **Y02E 60/16** (2013.01 - EP US)

Cited by
EP4206458A3; US11719217B2; EP3692255A4; US11608808B2; IL274332B1; IL274332B2; WO2019102449A1

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DOCDB simple family (publication)
WO 2005038246 A1 20050428; AU 2004282253 A1 20050428; AU 2004282253 B2 20091203; AU 2004282254 A1 20050428; AU 2004282254 B2 20091210; BR PI0415344 A 20061205; BR PI0415344 B1 20150818; BR PI0415417 A 20061205; BR PI0415417 B1 20150818; CA 2541431 A1 20050428; CA 2541431 C 20130115; CA 2541432 A1 20050428; CA 2541432 C 20130115; CN 100540885 C 20090916; CN 1867767 A 20061122; CN 1878952 A 20061213; CN 1878952 B 20100908; CY 1113936 T1 20160727; CY 1116615 T1 20170315; DK 1678419 T3 20121203; DK 1682776 T3 20130527; EP 1678419 A1 20060712; EP 1678419 B1 20120815; EP 1682776 A1 20060726; EP 1682776 B1 20130213; ES 2395525 T3 20130213; ES 2401581 T3 20130422; HK 1096445 A1 20070601; JP 2007508488 A 20070405; JP 2007533892 A 20071122; KR 101255348 B1 20130416; KR 20070020383 A 20070221; NO 20061643 L 20060411; NO 20061644 L 20060411; NO 333137 B1 20130311; NO 333160 B1 20130318; PT 1678419 E 20121129; PT 1682776 E 20130325; US 2007102937 A1 20070510; US 2007108773 A1 20070517; US 7579704 B2 20090825; US 7694513 B2 20100413; WO 2005038245 A1 20050428; WO 2005038247 A1 20050428; WO 2005038248 A1 20050428; WO 2005038249 A1 20050428; ZA 200603815 B 20070926; ZA 200603818 B 20071128

DOCDB simple family (application)
DK 2004000703 W 20041014; AU 2004282253 A 20041014; AU 2004282254 A 20041014; BR PI0415344 A 20041014; BR PI0415417 A 20041014; CA 2541431 A 20041014; CA 2541432 A 20041014; CN 200480030144 A 20041014; CN 200480033260 A 20041014; CY 121101083 T 20121113; CY 131100319 T 20130419; DK 04762923 T 20041014; DK 04762924 T 20041014; DK 2004000702 W 20041014; DK 2004000704 W 20041014; DK 2004000705 W 20041014; DK 2004000706 W 20041014; EP 04762923 A 20041014; EP 04762924 A 20041014; ES 04762923 T 20041014; ES 04762924 T 20041014; HK 07103812 A 20070412; JP 2006534589 A 20041014; JP 2006534590 A 20041014; KR 20067009453 A 20041014; NO 20061643 A 20041014; NO 20061644 A 20041014; PT 04762923 T 20041014; PT 04762924 T 20041014; US 57572604 A 20041014; US 57607904 A 20041014; ZA 200603815 A 20060512; ZA 200603818 A 20060512